



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

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GAF

1361 Alps Road
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Conventional Built-Up-Roof Systems over Recover Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises and renews NOA No. 08-0221.08 consists of pages 1 through 10.
The submitted documentation was reviewed by Juan E. Collao, R.A.



Juan E. Collao
11/04/13

NOA No.: 13-0409.09
Expiration Date: 11/06/18
Approval Date: 10/31/13
Page 1 of 10

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: BUR
Material: Fiberglass
Deck Type: Recover
Maximum Design Pressure: -60 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
GAFGlas® #75 Base Sheet	39.37" (1 meter) Wide	ASTM D 4601	Type II asphalt impregnated and coated glass mat base sheet.
GAFGlas® #80 Ultima™ Base Sheet	39.37" (1 meter) Wide	ASTM D 4601	Type II asphalt impregnated and coated, fiberglass base sheet.
GAFGlas® FlexPly™ 6	39.37" (1 meter) Wide	ASTM D 2178	Type VI asphalt impregnated glass felt with asphalt coating.
GAFGlas® Ply 4	39.37" (1 meter) Wide	ASTM D 2178	Type IV asphalt impregnated glass felt with asphalt coating.
GAFGlas® Mineral Surfaced Cap Sheet	39.37" (1 meter) Wide	ASTM D 3909	Asphalt coated, glass fiber mat cap sheet surfaced with mineral granules.
GAFGlas® Stratavent® Eliminator™ Perforated Venting Base Sheet	39.37" (1 meter) Wide	ASTM D 4897	Fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating with factory perforations.
GAFGlas® Stratavent® Eliminator™ Perforated Nailable Venting Base Sheet	39.37" (1 meter) Wide	ASTM D 4897	A nailable, fiberglass base sheet coated on both sides with asphalt. Surfaced on the bottom side with mineral granules embedded in asphaltic coating.
Ruberoid® 20	39.37" (1 meter) Wide	ASTM D 6163	SBS modified asphalt base sheet reinforce with a glass fiber mat.

APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
EnergyGuard™ Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard™ RA Composite Polyiso Insulation	Polyisocyanurate foam insulation with high density fiberboard or Permalite perlite insulation.	GAF
EnergyGuard™ Perlite Roof Insulation	Perlite insulation board.	GAF
Securock® Gypsum-Fiber Roof Board	Gypsum roof board	USG Corporation
DensDeck® Roof Board	Gypsum board	G-P Gypsum Corp.
Structodek® High Density Fiber Board	High density fiber board	Blue Ridge FiberBoard, Inc.

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Drill-Tec™ 12 fastener	Insulation and base ply fasteners.	Various	GAF
2.	Drill-Tec™ 14 fastener	Insulation and base ply fasteners.	Various	GAF
3.	Drill-Tec™ XHD Fastener	Insulation and base ply fasteners.	Various	GAF
4.	Drill-Tec™ Base Sheet Fastener	Base sheet fastening assembly.	1.2 in.	GAF
5.	Drill-Tec™ Base Sheet Fastener	Base sheet fastening assembly.	1.7 in.	GAF
6.	Drill-Tec™ LD Fastener	Insulation fastener for CWF and Gypsum decks.	Various	GAF
7.	Drill-Tec™ 3" Steel Plates	Round galvalume stress plate used with Drill-Tec™ fasteners.	3" round	GAF
8.	Drill-Tec™ 3" Standard Steel Plates	Round galvalume plated steel stress plate with reinforced ribs for use with Drill-Tec™ fasteners.	3" round	GAF

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Factory Mutual Research Corp.	FMRC 1996	Current Insulation Attachment Requirements	01/01/96
Factory Mutual Research Corp.	J.I. 2B8A4.AM	Wind Uplift	07/02/97
	J.I. 3B9Q1.AM	FMRC 4470	01/08/98
	J.I. 0D0A8.AM		07/09/99
Factory Mutual Research Corp.	J.I. 0Y9Q5.AM	FMRC 4470 - TAS 114	04/01/98
	3017250	4470	05/05/04
Trinity ERD	G6850.08.07-1	ASTM D 3909	08/13/07
	G34140.04.11-4	ASTM D 4601	04/25/11
	G30250.02.10-3-R1	ASTM D 3909	11/26/12
	G34140.04.11-5	ASTM D 4897	04/25/11
	G34140.04.11-5-R1	ASTM D 4897	10/18/13
	G34140.04.11-2	ASTM D 6163	04/25/11
PRI Technologies, Inc.	GAF-314-02-01	ASTM D 2178	08/23/11
	GAF-315-02-01	ASTM D 2178	08/23/11

APPROVED ASSEMBLIES:

Deck Type 7I: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/poured gypsum/wood/steel

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RA Composite Polyiso Insulation. Minimum 1" thick	N/A	N/A
Structodek® High Density Fiber Board, Securock® Gypsum-Fiber Roof Board, DensDeck® Roof Board. Minimum ½" thick	N/A	N/A
EnergyGuard™ Perlite Roof Insulation Minimum ¾" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. GAF requires either a ply of GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet laid dry or a layer of EnergyGuard Perlite Roof Insulation or wood fiber overlay board on all polyisocyanurate insulation applications.

Anchor Sheet:	One ply of GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet or Ruberoid® 20 mechanically fastened with approved insulation fasteners and 3" diameter stress plates, fastened 12" o.c. at the 4" side lap, and two 24' o.c. staggered rows in the center.
Base Sheet:	(Optional) One ply of one of GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet solidly mopped to insulation or GAFGLAS® Stratavent® Eliminator™ Perforated Venting Base Sheet (laid dry) over insulation. If base sheet is applied directly to polyisocyanurate insulation only a spot or strip mopped application as detailed in this approval is approved.
Ply Sheet:	One or more plies of GAFGLAS® Ply 4® or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Cap Sheet:	(Optional) One ply of GAFGLAS® Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.

Maximum Design Pressure: -45 psf (See General Limitation #9.)



Deck Type 7: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/poured gypsum/wood/steel

System Type E(1): Anchor Sheet mechanically fastened.

All General and System Limitations shall apply.

Anchor Sheet: One ply of GAFGLAS® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet mechanically fastened with approved insulation fasteners and 3" diameter stress plates, fastened 12" o.c. at the 4" side lap, and two 24' o.c. staggered rows in the center.

Ply Sheet: One or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

Cap Sheet: (Optional) One ply of GAFGLAS® Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.

Maximum Design

Pressure: -45 psf (See General Limitation #9.)

Deck Type 7: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/poured gypsum/wood/steel

System Type E(2): Anchor Sheet mechanically fastened.

All General and System Limitations shall apply.

Anchor Sheet: Install one ply of GAFGLAS® Stratavent® Eliminator™ Nailable or GAFGLAS® #80 Ultima™ Base Sheet or Ruberoid® 20, or GAFGLAS® #75 Base Sheet mechanically fastened with approved insulation fasteners and 3" diameter stress plates, fastened 9" o.c. at the 4" side lap, and two 12" o.c. staggered rows in the center.

Ply Sheet: One or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

Cap Sheet: (Optional) One ply of GAFGLAS® Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.

Maximum Design

Pressure: -45 psf (See General Limitation #9.)



Deck Type 7: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/poured gypsum/wood/steel

System Type F: Base sheet GAFGLAS® Stratavent® Perforated Venting Base Sheet, loose laid dry.

All General and System Limitations shall apply.

Base Sheet: One ply of one of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid and mopped with an approved asphalt to a primed smooth surface.

Ply Sheet: Two or more plies of GAFGLAS® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

Cap Sheet: (Optional) One ply of GAFGLAS® Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

Surfacing: (Required if no cap sheet is used) Install the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.

Maximum Design

Pressure: -60 psf (See General Limitation #9.)



RECOVER SYSTEM LIMITATIONS:

1. All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer.
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf., insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE